

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application.

**Listing of Claims:**

1.-43. (canceled)

44. (previously presented): A single-step method for producing antigen-loaded, antigen-presenting cells comprising the steps of:

maturing monocytes ex vivo with a tumor necrosis factor alpha and a granulocyte-macrophage colony stimulating factor in the presence of a pre-processed antigenic material to form mature antigen-presenting cells.

45. (previously presented): The method of claim 44, wherein the antigen loaded antigen-presenting cells are produced in less than four days.

46. (previously presented): The method of claim 44, wherein the antigenic material is selected from the group consisting of antigenic peptides, peptide mimetics, proteins, polypeptides, immune complexes, whole dying cell bodies, dying cell body fragments, viral vectors and liposomes.

47. (previously presented): The method of claim 44, wherein the antigenic material comprises a heat-treated antigenic material.

48. (previously presented): The method of claim 44, further comprising separating the antigen-loaded, antigen-presenting cells into fractions containing one or more subsets selected from the group consisting of cells with surface markers (CD1a<sup>+</sup> CD207<sup>+</sup>); cells with surface markers (CD1a<sup>+</sup> CD207); cells with surface markers (CD1a<sup>+</sup> CD14<sup>+</sup>); and cells with surface markers (CD14<sup>+</sup> CD1a<sup>+</sup> CD209<sup>+</sup>) and combinations thereof.

49. (previously presented): The method of claim 44, wherein the antigen-loaded, antigen-presenting cells are matured in the presence of a T cell that is CD4<sup>+</sup>, CD8<sup>+</sup> or a combination

thereof.

50. (previously presented): The method of claim 44, wherein the antigenic material comprises an insoluble antigenic cell fraction, a partially soluble cell fraction, whole dying cell bodies, dying cell body fragments or combinations thereof.

51. – 72. (cancelled)